

11/12/04

<b>Notice of Allowability</b>	Application No.	Applicant(s)	
	09/756,370	RAJIV LAROIA ET AL.	
	Examiner	Art Unit	
	David Q Nguyen	2681	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**  
 All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11/12/04.
2. ☒ The allowed claim(s) is/are 9,12-14,24,27-29,31,33 and 34 (renumbered as 1-11 respectively).
3. ☒ The drawings filed on 26 March 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |  |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                    |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material                     | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|  | 9. <input type="checkbox"/> Other _____.   |

## **DETAILED ACTION**

### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Thomas Stafford on 03/11/05.

2. The application has been amended as follows:

**Claims 1,16 and 32** have been withdrawn.

**Claims 10-11, 25-26** have been canceled.

**Claims 9,12-13,24,27-28,31 and 33-34** have been replaced as follows:

**Claim 9 (Currently amended):** A method for use in a wireless communications system including at least one base station and one or more wireless terminals for identifying whether a particular wireless terminal is reachable within a base station cell coverage area, the method being performed in a wireless terminal and comprising the steps of:

entering a monitoring mode to monitor a received paging time slot assigned to said particular wireless terminal for a timing control order;

in response to detecting a received timing control order for said particular wireless terminal, transmitting a timing control signal in a prescribed timing control time slot;

storing an identity of a timing control order that said particular wireless terminal is to receive and a predetermined time that said prescribed timing control signal is to be transmitted by said particular wireless terminal;

if no timing control order is detected, entering a standby mode, and entering said monitoring mode at a prescribed time; and

if a terminate order is detected in said monitoring mode, then disconnecting from said base station,

wherein said particular wireless terminal knows a priori said timing control signal and a prescribed time that said timing control signal will be transmitted by said particular wireless terminal.

**Claim 12 (currently amended):** The method as defined in claim 9 wherein said timing control time slot is a paging time slot.

**Claim 13 (currently amended):** The method as defined in claim 9 wherein said timing control order includes the identity of said particular wireless terminal being queried.

**Claim 24 (currently amended):** Apparatus for use in a wireless communications system including at least one base station and one or more wireless terminals for identifying whether a particular wireless terminal is reachable within a base station cell coverage area, the apparatus being in a wireless terminal and comprising:

a receiver controlled to enter a monitoring mode to monitor a received paging time slot assigned to said particular wireless terminal for a timing control order;

a transmitter, responsive to detecting a received timing control order for said particular wireless terminal, to transmit a timing control signal in a prescribed timing control time slot; a processor

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including storage for storing an identity of a timing control order that said particular wireless terminal is to receive and a predetermined time that said prescribed timing control signal is to be transmitted by said particular wireless terminal;

if no timing control order is detected, entering a standby mode, and entering said monitoring mode at a prescribed time and

if a terminate order is detected in said monitoring mode, then disconnecting from said base station,

wherein said particular wireless terminal knows a priori a prescribed timing control signal a prescribed time that said prescribed timing control signal is to be transmitted by said transmitter of said particular wireless terminal.

**Claim 27 (currently amended):** The apparatus as defined in claim 24 wherein said timing control time slot is a paging time slot.

**Claim 28 (currently amended):** The apparatus as defined in claim 24 wherein said timing control order includes the identity of said particular wireless terminal being queried.

**Claim 31 (currently amended):** A method for use in a wireless communications system including at least one base station and one or more wireless terminals for identifying whether a particular wireless terminal is reachable within a base station cell coverage area, the method comprising the steps of:

in a base station

transmitting a timing control order in a timing control time slot assigned to said particular wireless terminal,

monitoring received timing control signal time slots to determine whether a timing control signal has been received from said particular wireless terminal, reception of said timing control signal indicating that said particular wireless terminal is reachable in said base station cell coverage area, and

storing a prescribed timing control signal associated with said particular wireless terminal and a prescribed time that said prescribed timing control signal is to be transmitted by said particular wireless terminal,

wherein said base station knows a priori a prescribed timing control signal and a prescribed time that said prescribed timing control signal is to be transmitted by a transmitter of said particular wireless terminal; and

in a wireless terminal

entering a monitoring mode to monitor a received paging time slot assigned to said particular wireless terminal for a timing control order,

in response to detecting a received timing control order for said particular wireless terminal, transmitting a timing control signal in a prescribed timing control time slot,

storing an identity of a timing control order that said particular wireless terminal is to receive and a predetermined time that said prescribed timing control signal is to be transmitted by said particular wireless terminal;

if no timing control order is detected, entering a standby mode, and entering said monitoring mode at a prescribed time; and

if a terminate order is detected in said monitoring mode, then disconnecting from said base station,

wherein said particular wireless terminal knows a priori said prescribed timing control signal and said prescribed time that said prescribed timing control signal is to be transmitted by said transmitter of said particular wireless terminal.

**Claim 33 (currently amended):** Apparatus for use in a wireless communications system including at least one base station and one or more wireless terminals for identifying whether a particular wireless terminal is reachable within a base station cell coverage area, the apparatus being in a wireless terminal and comprising:

means for controlling said particular wireless terminal to enter a monitoring mode to monitor a received paging time slot assigned to said particular wireless terminal for a timing control order;

means, being responsive to detecting a received timing control order for said particular wireless terminal, for transmitting a timing control signal in a prescribed timing control time slot;

means for storing an identity of a timing control order that said particular wireless terminal is to receive and a predetermined time that said prescribed timing control signal is to be transmitted by said particular wireless terminal;

means for determining if a terminate order is detected in said monitoring mode, entering a standby mode, and then, disconnecting from said base station; and

means for detecting if a terminate order is detected in said monitoring mode, then disconnecting from said base station,

wherein said particular wireless terminal knows a priori a prescribed timing control signal and a prescribed time that said prescribed timing control signal is to be transmitted by said transmitter of said particular wireless terminal.

**Claim 34 (currently amended):** Apparatus for use in a wireless communications system including at least one base station and one or more wireless terminals for identifying whether a particular wireless terminal is reachable within a base station cell coverage area, the apparatus comprising:

in a base station

means for transmitting a timing control order in a timing control time slot assigned to said particular wireless terminal, means for monitoring received timing control signal time slots to determine whether a timing control signal has been received from said particular wireless terminal, reception of said timing control signal indicating that said particular wireless terminal is reachable in said base station cell coverage area, and

means storing a prescribed timing control signal associated with said particular wireless terminal and a prescribed time that said prescribed timing control signal is to be transmitted by said particular wireless terminal,

wherein said base station knows a priori a prescribed timing control signal and a prescribed time that said prescribed timing control signal is to be transmitted by said particular wireless terminal; and

in a wireless terminal

means for controlling said particular wireless terminal to enter a monitoring mode to monitor a received paging time slot assigned to said particular wireless terminal for a timing control order,

means, being responsive to detecting a received timing control order for said particular wireless terminal, for transmitting a timing control signal in a prescribed timing control time slot, and

means for storing an identity of a timing control order that said particular wireless terminal is to receive and a predetermined time that said prescribed timing control signal is to be transmitted by said particular wireless terminal;

means for determining if a terminate order is detected in said monitoring mode, entering a standby mode, and then, disconnecting from said base station; and

means for detecting if a terminate order is detected in said monitoring mode, then disconnecting from said base station,

wherein said particular wireless terminal knows a priori a prescribed timing control signal and a prescribed time that said prescribed timing control signal is to be transmitted by said transmitter of said particular wireless terminal.

***Allowable Subject Matter***

3. Claims 9,12-14,24,27-29,31 and 33-34 are allowed.

The following is an examiner's statement of reasons for allowance:

Regarding independent claim 9,24,31 and 33-34, the claim has been amended to include the subject matter: "if no timing control order is detected, entering a standby mode, and entering said monitoring mode at a prescribed time; and if a terminate order is detected in said monitoring mode, then disconnecting from said base station," overcome the prior arts. The closest prior art, Godoroja (US 5485463), Miyashita (US 6453172) and LeBlanc et al (US 5960341), either



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singularly or in combination, fail to anticipate or render obvious the amended claims above.

Claims 12-14 depend on claim 9. Therefore, they are allowed.

Claims 27-29 depend on claim 24. Therefore, they are allowed.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### *Conclusion*

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Q Nguyen whose telephone number is 571-272-7844. The examiner can normally be reached on 8:30AM-5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Moise Emmanuel can be reached on (571) 272-3865. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DN  
David Nguyen

JEAN GELIN  
PRIMARY EXAMINER

jean Allard Gelin 4/3/05